

Appl. No. 09/846,490
IDS dated October 6, 2005

Modified Form PTO/SB/08A

Subdata for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		<i>Complete If Known</i>			
		Application Number	09/846,490		
		Filing Date	April 30, 2001		
		First Named Inventor	Eldridge et al.		
		Group Art Unit	3729		
		Examiner Name	Carl J. Arbes		
Sheet	1	of	1	Attorney Docket No.	P6D2-US

U.S. PUBLISHED PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant	Publ/Issue Date	Related ⁴ Copy Enclosed
		Number	Kind Code ²			
ga	1.	2001/0002341		Eldridge et al.	5/31/2001	Yes Yes

FOREIGN PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant	Publ. Date	T ³ Copy Enclosed
		Office	Number ² Kind Code ²			
ga	2.	JP	05-029406	Nakao	2/5/1993	x Yes

Examiner Signature	Charles	Date Considered	12/22/05
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** Reference cited in parent application US Serial No. 08/851,566. 37 CFR § 1.98(d)

*** Pre-OG Notice By Deputy Commissioner Stephen G. Kumin dated July 11, 2003 waiving the requirement to file copies of US patent publications in applications filed after June 30, 2003.

& Notice dated October 19, 2004 by Deputy Commissioner for Patent Examination Policy waiving requirement to file copies of pending US patent applications if the applications are stored in the USPTO's IFW system.

Commonly owned US patent or application whose subject matter may be related to the subject matter of the instance patent application.



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OK	1	4038599		Bove et al.	7/26/1977	
OK	2	5070297		Kwon et al.	12/3/1991	
OK	3	5329226		Monnet et al.	7/12/1994	
OK	4	5395253		Crumly	3/7/1995	
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OK	6	5534784		Lum et al.	7/9/1996	
OK	7	5555422		Nakano	9/10/1996	
OK	8	5629631		Perry et al.	5/13/1997	
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		Office	Number	Kind Code ²				

Examiner Signature	<i>C. Arbes</i>	Date Considered	1/1/03
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Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant	Publication Date	Relevant Portions
		Number	Kind Code ²			
CJA	1	4032058		Riseman	6/28/1977	
gc	2	5103557		Leedy	4/14/1992	
CJA	3	5187020		Kwon et al.	2/16/1993	
gc	4	5191708		Kasukabe et al.	3/9/1993	
CJA	5	5354712		Ho et al	10/11/1994	
gc	6	5391521		Kim	2/21/1995	
CJA	7	5513430		Yanof et al.	5/7/1996	
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gc	16	3714384		Burkhardt	Jan-73	
CJA	17	3771110		Reed	Nov-73	
gc	18	3826984		Epple	Jul-74	
CJA	19	3891924		Ardezzone et al.	Jun-75	
gc	20	3994552		Selvin	Nov-76	
CJA	21	4307928		Petlock Jr.	Dec-81	
gc	22	4338621		Braun	Jul-82	
CJA	23	4358175		Reid	Nov-82	
gc	24	4466184		Cuneo et al.	Aug-84	
CJA	25	4553192		Babuka	Nov-82	

Examiner Signature	<i>C. J. Arbes</i>	Date Considered	8/6/02
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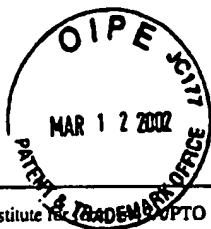
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CJA	26	4567433		Ohkubo et al.	Jan-86	
CJA	27	4593958		Baba	Jun-86	
CJA	28	4615573		White et al.	Oct-86	
CJA	29	4616404		Wang et al.	Oct-86	
CJA	30	4707655		Kruger	Nov-87	
CJA	31	4773877		Kruger et al.	Sep-88	
CJA	32	4831614		Duerig et al.	May-89	
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CJA	34	4893172		Matsumoto et al.	Jan-90	
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CJA	36	4965865		Trenary	Oct-90	
CJA	37	4993957		Shino	Feb-91	
CJA	38	5090118		Kwon et al.	Feb-92	
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CJA	40	5191708		Kasukabe et al.	Mar-93	
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CJA	42	5221895		Janko et al.	Jun-93	
CJA	43	5308797		Kee	May-94	
CJA	44	5391521		Kim	Feb-95	
CJA	45	5469733		Yasue et al.	Nov-95	
CJA	46	5475318		Marcus et al.	Dec-95	
CJA	47	5632631		Fjelstad et al.	May-97	
CJA	48	5811982		Beaman et al.	Sep-98	
CJA	49	3832632		Ardezzone	8/27/1974	
CJA	50	3654585		Wickersham	4/4/1972	

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CJA	51	3842189		Southgate	10/15/1974	
CJA	52	4085502		Ostman et al.	4/25/1978	
CJA	53	4548451		Benarr et al.	10/22/1985	
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CJA	57	5067007		Kanji et al.	Nov-91	
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CJA	59	5148103		Pasiecznik, Jr.	9/15/1992	
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CJA	67	5828226		Higgins et al.	Oct-98	
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CJA	71	5109596		Driller et al.	May-92	
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CJA	73	4955523		Calomagno et al.	Sep-90	
CJA	74	5189507		Carlomagno et al.	Feb-93	

Examiner Signature	C. J. Arbes	Date Considered	8/6/02
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Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant	Publication Date	Relevant Portions
		Number	Kind Code ²			
cyk	75	5455390		DiStefano et al.	Oct-95	
cyk	76	5130779		Agarwala et al.	Jul-92	
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ga	80	5245751		Locke et al.	Sep-93	
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ga	82	4947481		Ikedo et al.	Aug-90	

FOREIGN PATENT DOCUMENTS								
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		Office ³	Number ⁴	Kind Code ⁵				
ga	83	GB	1446196		Carrier	8/18/2076 1976		
ga	84	EP	295914		Kamezos	12/21/1988		
ga	85	EP	396248		Keiichi et al.	11/7/1990		
ga	86	EP	413042		Greschner et al.	2/10/1991		
cyk	87	JP	4214650		Shoichi	8/5/1992		
ga	88	JP	6018555		Meisei Denshi Kogyo	1/25/1994		
ga	89	JP	6265575		Masamitsu et al.	9/22/1994		
ga	90	JP	6180329		Kouchi	Jun-94		
cyk	91	WO	9112706		Leedy	Aug-91		
cyk	92	WO	9409513		Leedy	Apr-94		
ga	93	DE	4237591		Mang et al	5/11/1994		
ga	94	EP	369112		Mang et al	5/23/1990		
ga	95	EP	402756		Yasujate et al	12/19/1990		

Examiner Signature	C. J. Arbes	Date Considered	8/6/02
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CPA	96	JP	365659		Kenjiro	Mar-91
CPA	97	JP	451535		KASUKABE et al	Dec-91
CPA	98	JP	529406		NAKAO	Feb-93
CPA	99	JP	588960		TAKAFUMI	Feb-83
CPA	100	JP	650990		KAZAMI	Feb-94
CPA	101	JP	772172		Hiro Yuki et al	Mar-95
CPA	102	JP	1152271		NAKAZIMA et al	Oct-89
CPA	103	JP	1255240		Minoru	10/12/1989
CPA	104	JP	2226996		Hiroshi	Jan-00
CPA	105	JP	3292406		Keiichi	Nov-88
CPA	106	JP	4207047		Eitaro	Sep-90
CPA	107	JP	4240570		NAOAKI	Aug-92
CPA	108	JP	4294559		Hiroshi et al	Oct-92
CPA	109	JP	4357848		SHUHEI	12/10/1992
CPA	110	JP	5218156		Ryuichi et al	Aug-93
CPA	111	JP	6119770		Sugino	Feb-86
CPA	112	JP	6244285		TANAKA et al	Mar-87
CPA	113	JP	6249924		Kazumi et al	Sep-94
CPA	114	JP	6273445		MA SAO	Sep-94

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OK	115	JP	6313775		Huggins et al	Nov-94		
CA	116	JP	6363777		YAMAMOTO et al	Apr-88		
CA	117	JP	58178293		Motoki et al	Nov-83		
CA	118	JP	59149070		MIZUNO	Oct-84		
CA	119	JP	62160373		MIZUNO et al	Oct-87		
CA	120	JP	63243768		Min Eo et al	Oct-88		
CA	121	JP	63279477		YUJI et al	Mar-91		

OTHER PRIOR ART - NONPATENT LITERATURE DOCUMENTS				
Examiner Initials ²	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²	
Cp	122	"Robust Method Using Simple Unit Processes For Thin Film Cu-Polyimide Packaging Structures," IBM Technical Disclosure Bulletin, vol. 34, no. 10A (March 1992)		

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CJ	1	3810301		Cook	5/15/1974	
JL	2	3835530		Kilby	9/17/1974	
CJ	3	4281449		Ports et al.	8/4/1981	
GC	4	4623839		Garretson et al.	11/18/1986	
GP	5	4795977		Frost et al.	1/3/1989	
GA	6	4924589		Leedy	5/15/1990	
GA	7	5055780		Takagi et al.	10/8/1991	
GA	8	5177438		Littlebury et al.	1/5/1993	
GA	9	5412329		Iino et al.	5/2/1995	
GA	10	5465611		Ruf et al.	11/14/1995	
GA	11	5476818		Yanof et al.	12/19/1995	
GA	12	5666190		Quate et al.	9/9/1997	
GA	13	5720098		Kister	2/24/1998	
GA	14	5811982		Beaman et al.	9/22/1998	
GA	15	6032356		Eldridge et al.	3/7/2000	
GA	16	6215320	B1	Parrish	4/10/2001	
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GA	18	6330164	B1	Khandros et al.	12/11/2001	
GA	19	6334247	B1	Beaman et al.	1/1/2002	
GA	20	6392426	B2	Farnsworth et al.	5/21/2002	

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CA	21	EP	544305	A2	Ouchi et al.	6/2/1993		
CA	22	JP	04-93157		Tazawa	8/13/1992		x
CA	23	JP	05-018741		Kawase et al.	1/26/1993		x
CA	24	JP	05-198716		Osawa	8/6/1993		x
CA	25	JP	06-267408		Todokoro et al.	9/22/1994		x
CA	26	JP	07-021968		Watanabe et al.	1/24/1995		x
CA	27	JP	07-333232		Tagi et al.	12/22/1995		x
CA	28	JP	59-088860		Hatada et al.	5/22/1984		x
CA	29	JP	62-160373		Mizumo et al.	10/12/1987		x

OTHER PRIOR ART – NONPATENT LITERATURE DOCUMENTS					
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ⁴
Cja	31	KONG et al., "Integrated electrostatically resonant scan tip for an atomic force microscope," J. Vac. Sci. Technol. B 11(3) (May/June 1993), pp. 634-645			
Cje	32	LEUNG et al., "Active Substrate Membrane Probe Card," Center for Integrated Systems, Stanford University, October 12, 1995, pp. 29.2.1-29.2.4			

Examiner Signature	C. J. Arbes	Date Considered	2/1/03
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				<i>Complete If Known</i>	
				Application Number	09/846,490
				Filing Date	4/30/01
				First Named Inventor	Eldridge et al.
				Group Art Unit	3729
Examiner Name	C. Arbes				
Sheet	1	of	1	Attorney Docket No.	P6D2-US

U.S. PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant	Publication Date	Relevant Portions
		Number	Kind Code ²			
Cja	1	3,963,986		Morton et al.	6/15/76	

FOREIGN PATENT DOCUMENTS								
Examiner Initials [*]	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant	Publication Date	Relevant Portions	T ⁶
		Office ³	Number ⁴	Kind Code ⁵				
Cja	2	KR	10-0013608		Tokyo Electron Co.	9/6/90		

OTHER PRIOR ART - NONPATENT LITERATURE DOCUMENTS			
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ⁷
Cja	3	Korea Institute of Machinery & Materials "Development of Manufacturing Process for Membrane Probe Card", Ministry of Science and Technology, pp.1-62, (1992).	

Examiner Signature	C. J. Arbes	Date Considered	4/15/05
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Modified Form PTO/SB/08A

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				Filing Date	April 30, 2001
				First Named Inventor	Eldridge et al.
				Group Art Unit	3729
				Examiner Name	C. Arbes
Sheet	1	of	2	Attorney Docket No.	P6D2-US

U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant	Publication Date	Related	Copy Enclosed
		Number	Kind Code ²				
CA	1	3493858		D.G. Baron et al.	2/3/70		No
CA	2	3806801		Bove	4/23/74		No
CA	3	3911361		Bove et al.	10/7/75		No
CA	4	4423376		Brynes et al.	12/27/83		No
CA	5	4837622		Whann et al.	6/6/89		No
CA	6	4916002		Carver	4/10/90		No
CA	7	5059898		Barsotti et al.	10/22/91		No
CA	8	5177439		Liu et al.	1/5/93		No
CA	9	5221415		Albrecht et al.	6/22/93		No
CA	10	5367165		Toda et al.	11/22/94		No
CA	11	5546375		Shimada et al.	8/13/96		No

FOREIGN PATENT DOCUMENTS								
Examiner Initials ^o	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant	Publication Date	Copy Enclosed	T ^o
		Office ³	Number ⁴	Kind Code ⁵				
CA	12	JP	1150862		Mitsubishi Electric Corp.	6/13/89	Yes	X
CA	13	JP	6-151532		Tokyo Electron Yamanashi KK	5/31/94	Yes Abs only	X
CA	14	JP	63-293934		Hitachi	11/30/88	Yes	X
CA	15	JP	6-84455		Canon Kabushiki Kaisha	3/25/94	Yes	X
CA	16	JP	7-7052		Seiko-Epson Corp	1/10/95	Yes	X
CA	17	EP	508707		Texas Instruments	10/14/92	Yes	X

Examiner Signature	C. Arbes	Date Considered	4/15/05
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Modified Form PTO/SB/08A

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete If Known			
		Application Number	09/846,490		
		Filing Date	April 30, 2001		
		First Named Inventor	Benjamin Eldridge et al.		
		Group Art Unit	3729		
Examiner Name	C. Arbes				
Sheet	2	of	2	Attorney Docket No.	P6D2-US

OTHER PRIOR ART - NONPATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
cp	18	Lee, "Design and Fabrication of a monolithic High-Density Probe Card for High-Frequency on-Wafer Testing", IEEE, IEDM 89-289-292, (1989).	

Examiner Signature	C. J. Arbes	Date Considered	8/15/05
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¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention

Probe Card Assembly And Kit, And Methods Of Making Same

Application Number : 09/846490
Confirmation Number: 5397
First Named Applicant: Benjamin Eldridge
Attorney Docket Number: P6D2-US
Art Unit:



Examiner: Carl J. Arbes

Search string: (5974662 or 6246247 or 6624648 or 6615485 or 20020117330 or 20030199179 or 20020053734).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
CJA	1	5974662	1999-11-02	Eldridge et al.	—	—	
gjc	2	6246247	2001-06-12	Eldridge et al.	—	—	
CJA	3	6624648	2003-09-23	Eldridge et al.	—	—	
hA	4	6615485	2003-09-09	Eldridge et al.	—	—	

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
CJA	1	20020117330	2002-08-29	Eldridge et al.	—	—	
gjc	2	20030199179	2003-10-23	Eldridge et al.	—	—	
CJA	3	20020053734	2002-05-09	Eldridge et al.	—	—	

Remarks

Note: Remarks are not for responding to an office action.

COMMONLY OWNED, RELATED U.S. PATENTS AND APPLICATIONS: Applicants note that each of the seven patents and patent applications cited in the attached listing are U.S. patents or applications that are commonly owned with the above-identified patent application and may

contain subject matter that is related to the subject matter of the above-identified patent application. The Examiner's attention is therefore directed to the prosecution history of the foregoing related U.S. patent(s) and patent application(s) and prior art cited in these patent(s) and patent application(s); Applicants assume the Examiner has access to all of the prosecution history, including the cited prior art, of these patents(s) and patent application(s), but Applicants will provide copies of all or any part of the prosecution history of or prior art from any of these patent(s) or patent application(s) upon request.

Signature

Examiner Name	Date
C. J. Arbes	12/22/05

Modified Form PTO/SB/08A

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Sheet	1	of	2	Attorney Docket No.	P6D2-US

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Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant	Publication Date	Relevant Portions
		Number	Kind Code ²			
CJA	1	4537808		Yamamoto et al.	8/27/1985	
CJA	2	4969826		Grabbe	11/13/1990	

FOREIGN PATENT DOCUMENTS								
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant	Publication Date	Relevant Portions	T ³
		Office ⁴	Number ⁴	Kind Code ⁵				
CJA	3	WO	92/10010		Billette	6/11/1992		x

Examiner Signature	C. J. Arbes	Date Considered	4/19/06
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